INDEX TO VOLUME 37 (2000)

RESEARCH-EXPOSITORY SURVEYS

Baouendi, M. S.; Ebenfelt, P.; and Rothschild, Linda Preiss. *Local geometric properties of real submanifolds in complex space*, 309

Birkhoff, G. D. *A mathematical critique of some physical theories*, 65

Brouwer, Dr. L. E. J. *Intuitionism and formalism*, 55

Di Francesco, P. *Folding and coloring problems in mathematics and physics*, 251

Ebenfelt, P. *See* Baouendi, M. S.

Einstein, Albert. *Elementary derivation of the equivalence of mass and energy*, 39

Fiske, President Thomas S. *Mathematical progress in America*, 3

Fulton, William. *Eigenvalues, invariant factors, highest weights, and Schubert calculus*, 209

Hilbert, David. *Mathematical problems*, 407

McMullen, Curtis T. *From dynamics on surfaces to rational points on curves*, 119

Morawetz, Cathleen Synge. *Variations on conservation laws for the wave equation*, 141

Morris, W. and Soltan, V. *The Erdős-Szekeres problem on points in convex position – a survey*, 437

Parshall, Karen Hunger. *Perspectives on American mathematics*, 381

Pierpont, Professor James. *The history of mathematics in the nineteenth century*, 9

Poincaré, Professor H. *The present and the future of mathematical physics*, 25

Rothschild, Linda Preiss. *See* Baouendi, M. S.

Saari, Donald G. *Introductory comments*, 1

———. *Note from the Editor*, 379

Soltan, V. *See* Morris, W.

Van Vleck, Edward B. *Current tendencies of mathematical research*, 45

BOOK REVIEWS

Ahlfors, L. V. *Complex analysis*, reviewed by A. C. Schaeffer, 111

Alexandroff, Paul. *Einfachste Grundbegriffe der Topologie*, with an introduction by David Hilbert, reviewed by P. A. Smith, 90

Alexandroff, Paul and Hopf, Heinz. *Topologie* I, reviewed by A. W. Tucker, 93

Andrews, George E.; Askey, Richard; and Roy, Ranjan. *Special functions*, reviewed by Jet Wimp, 499

Arnold, V. I. and Khesin, B. A. *Topological methods in hydrodynamics*, reviewed by Steve Shkoller, 175

Askey, Richard. *See* Andrews, George E.

Bade, William G. *See* Dunford, Nelson

Baouendi, M. Salah; Ebenfelt, Peter; and Rothschild, Linda Preiss. *Real submanifolds in complex space and their mappings*, reviewed by Nancy K. Stanton, 511

Bartle, Robert G. *See* Dunford, Nelson

Bass, H.; Buium, A.; and Cassidy, P. J. (editors). *Selected works of Ellis Kolchin*, reviewed by Andy R. Magid, 337

Birkhoff, G. D. *Dynamical systems*, reviewed by B. O. Koopman, 88

Bourbaki, N. *Éléments de mathématique*, reviewed by E. Artin, 112

Buium, A. *See* Bass, H.

Burnside, W. *Theory of groups of a finite order*, reviewed by G. A. Miller, 80

Carathéodory, C. *Funktionentheorie*, reviewed by Maurice Heins, 108

Cartan, Élie. *La théorie des groupes finis et continus et la géométrie différentielle traitées par méthode du repère mobile*, reviewed by Hermann Weyl, 96

Cartan, Henri and Eilenberg, Samuel. *Homological algebra*, reviewed by S. Mac Lane, 113

Cassidy, P. J. *See* Bass, H.

Chevalley, C. *Introduction to the theory of algebraic functions of one variable*, reviewed by A. Weil, 103

Chevalley, Claude. *The theory of Lie groups*, I, reviewed by P. A. Smith, 105

Chriss, Neil and Ginzburg, Victor. *Representation theory and complex geometry*, reviewed by Ivan Mirković, 343

Courant, R. and Hilbert, D. *Methoden der mathematischen Physik*, Vol. 2, reviewed by Hermann Weyl, 97

Cox, David A. and Katz, Sheldon. *Mirror symmetry and algebraic geometry*, reviewed by V. Batyrev, 473
Coxeter, H. S. M. *Regular polytopes*, reviewed by C. B. Allendoerfer, 107
Curtis, Charles W. *Pioneers of representation theory*, reviewed by J. E. Humphreys, 359
Dieudonné, J. *See* Grothendieck, A.
Donkin, Stephen. *The q-Schur algebra*, reviewed by Brian Parshall, 467
van den Dries, Lou. *Tame topology and o-minimal structures*, reviewed by David Marker, 351
Dunford, Nelson and Schwartz, Jacob T., with the assistance of William G. Bade and Robert G. Bartle. *Linear operators*. Part II. *Spectral theory*, reviewed by Gian-Carlo Rota, 118
Ebenfelt, Peter. *See* Baouendi, M. Salah
Edgar, G. *Integral, probability, and fractal measures*, reviewed by Lars Olsen, 481
Eilenberg, S. and Steenrod, N. *Foundations of algebraic topology*, reviewed by E. H. Spanier, 114
Eilenberg, Samuel. *See* Cartan, Henri
Etingof, Pavel I; Frenkel, Igor B.; and Kirillov, Alexander, A., Jr. *Lectures on representation theory and Knizhnik-Zamolodchikov equations*, reviewed by Vyjayanthi Chari, 161
Evans, L. C. *Partial differential equations*, reviewed by Jeffrey Rauch, 363
Feller, William. *An introduction to probability theory and its applications*, Vol. I, reviewed by J. Wolfowitz, 109
Festschrift zur Feier des 100 Geburtstages Eduard Kummers mit Briefen an seine Mutter und an Leopold Kronecker, reviewed by L. E. Dickson, 82
Frenkel, Igor B. *See* Etingof, Pavel I.
Gelfand, I. M.; Kapranov, M. M.; and Zelevinsky, A. V. *Discriminants, resultants and multidimensional determinants*, reviewed by Fabrizio Catanese, 183
Ginzburg, Victor. *See* Chriss, Neil
Gödel, Kurt. *Consistency of the axiom of choice and of the generalized continuum-hypothesis with the axioms of set theory*, reviewed by C. C. Torrance, 102
Goursat, Édouard. *Cours d'analyse mathématique*, reviewed by W. F. Osgood, 81
Grothendieck, A. *Éléments de géométrie algébrique, rédigés avec la collaboration de J. Dieudonné*, reviewed by S. Lang, 115
Hardy, G. H. and Wright, E. M. *An introduction to the theory of numbers*, reviewed by E. T. Bell, 99
Hilbert, D. *See* Courant, R.
Hilbert, David. Poincaré's review of Hilbert's *Foundations of geometry*, reviewed by H. Poincaré, 77
Hodge, W. V. D. *The theory and applications of harmonic integrals*, reviewed by D. J. Struik, 102
Hopf, Heinz. *See* Alexandroff, Paul
Jost, J. *Riemannian geometry and geometric analysis*, reviewed by Werner Ballmann, 459
Kapranov, M. M. *See* Gelfand, I. M.
Katz, Sheldon. *See* Cox, David A.
Khesin, B. A. *See* Arnold, V. I.
Kirillov, Alexander A., Jr. *See* Etingof, Pavel I.
Klain, Daniel A. and Rota, Gian-Carlo. *Introduction to geometric probability*, reviewed by Günter M. Ziegler, 205
Kolmogoroff, A. *Grundbegriffe der Wahrscheinlichkeitsrechnung*, reviewed by H. L. Rietz, 91
Krasil'shchik, I. S. and Vinogradov, A. M. *Symmetries and conservation laws for differential equations of mathematical physics*, reviewed by Peter J. Olver, 369
Landau, Edmund. *Vorlesungen über Zahlentheorie*, reviewed by G. D. Birkhoff, 86
Laugwitz, Detlef. *Bernhard Riemann, 1826–1866: Turning points in the conception of mathematics*, reviewed by Roger Cooke, 477
Lebesgue, H. *Leçons sur l'intégration et la recherche des fonctions primitives*, reviewed by T. H. Hildebrandt, 87
Lie, Sophus. *Vorlesungen über continuirliche Gruppen mit geometrischen und anderen Anwendungen*, reviewed by J. M. Brooks, 78
———. *Gesammelte Abhandlungen*, reviewed by R. D. Carmichael, 79
Mac Lane, Saunders. *Homology*, reviewed by David A. Buchsbaum, 117

Mathas, Andrew. *Iwahori-Hecke algebras and Schur algebras of the symmetric group*, reviewed by Brian Parshall, 467
Mordell, L. J. *Three lectures on Fermat's last theorem*, reviewed by G. E. Wahlin, 84
Morgenstern, Oskar. *See* von Neumann, John
Murnaghan, Francis D. *The theory of group representations*, reviewed by R. Brauer, 100
Murty, M. Ram and Murty, V. Kumar. *Non-vanishing of L-functions and applications*, reviewed by Dorian Goldfeld, 155
Murty, V. Kumar. *See* Murty, M. Ram
Navarro, Gabriel. *Characters and blocks of finite groups*, reviewed by David Gluck, 169
von Neumann, John and Morgenstern, Oskar. *Theory of games and economic behavior*, reviewed by A. H. Copeland, 103
Osgood, Dr. W. F. *Lehrbuch der Funktionentheorie*, reviewed by E. B. Van Vleck, 83
Petersen, P. *Riemannian geometry*, reviewed by Werner Ballmann, 459
Ramakrishnan, D. and Valenza, R. J. *Fourier analysis on number fields*, reviewed by Jeremy Teitelbaum, 373
Reidemeister, K. *Knotentheorie*, reviewed by P. A. Smith, 90
Reidemeister, Kurt. *Einführung in die kombinatorische Topologie*, reviewed by P. A. Smith, 90
Riesz, F. and Sz.-Nagy, B. *Leçons d'analyse functionelle*, reviewed by E. R. Lorch, 111
Rota, Gian-Carlo. *See* Klain, Daniel A.
Rothschild, Linda Preiss. *See* Baouendi, M. Salah
Roy, Ranjan. *See* Andrews, George E.
Sakai, T. *Riemannian geometry*, reviewed by Werner Ballmann, 459
Schwartz, Jacob T. *See* Dunford, Nelson
Seifert, H. and Threlfall, W. *Lehrbuch der Topologie*, reviewed by A. W. Tucker, 92
Smart, Nigel P. *The algorithmic resolution of Diophantine equations*, reviewed by Maurice Mignotte, 207
Srinivasan, Bhama. *Editor's introduction*, 75
Steenrod, N. *See* Eilenberg, S.
Steinitz, Ernst. *Vorlesungen über die Theorie der Polyeder unter Einschluss der Elemente der Topologie*, edited and completed by Hans Rademacher, reviewed by A. W. Tucker, 92
Sz.-Nagy, B. *See* Riesz, F.
Threlfall, W. *See* Seifert, H.
Titchmarsh, E. C. *The theory of the Riemann zeta-function*, reviewed by N. Levinson, 110
Traub, J. F. and Werschulz, A. G. *Complexity and information*, reviewed by Mark A. Kon, 199
Valenza, R. J. *See* Ramakrishnan, D.
Veblen, Oswald. *The Cambridge Colloquium*, 1916, Part II. *Analysis Situs*, reviewed by S. Lefschetz, 85
Vinogradov, A. M. *See* Krasil'shchik, I. S.
van der Waerden, B. L. *Moderne algebra*, reviewed by O. Ore, 89
Weil, André. *Foundations of algebraic geometry*, reviewed by Oscar Zariski, 106
Werschulz, A. G. *See* Traub, J. F.
Weyl, Hermann. *The classical groups*, reviewed by N. Jacobson, 100
Wright, E. M. *See* Hardy, G. H.
Zariski, Oscar. *Algebraic surfaces*, reviewed by Solomon Lefschetz, 94
Zelevinsky, A. V. *See* Gelfand, I. M.
Zygmund, A. *Trigonometric series*, 2d. ed., reviewed by R. Salem, 96
Zygmund, Antoni. *Trigonometric series*, reviewed by J. D. Tamarkin, 95